ORDINANCE O-2020-

A BILL FOR AN ORDINANCE AMENDING CHAPTER 14.32 OF THE LONGMONT MUNICIPAL CODE ON RATES AND REGULATIONS GOVERNING ELECTRIC SERVICE

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THE COUNCIL OF THE CITY OF LONGMONT, COLORADO, ORDAINS:

Section 1

In this ordinance, ellipses indicate material not reproduced as the Council intends to leave that material in effect as it now reads.

Section 2

The Council amends section 14.32.190, paragraph E only, of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

…

E. Liability.

1. All lines, wires, apparatus, instruments, meters, transformers, poles, telecommunication equipment, and material supplied by the city at its expense or under its standard policies will be and remain the property of the city. The city's property shall not be worked upon or interfered with by any customer or other unauthorized person(s). The customer shall be responsible for any damage to or loss of the city's property located on the customer's premises, caused by or arising out of the acts, omissions or negligence of the customer or others, or the misuse or unauthorized use of the city's property by the customer or others. The cost of making good such loss and/or repairing such damage shall be paid by the customer.

This provision also applies to damages to city facilities during the course of construction activities at a development site.

2. The customer shall also be held responsible for and indemnify the city for injury to the city's employees if caused by the customer's acts, omissions or negligence.

3. The customer shall also be responsible and will indemnify and hold the city harmless for any injury to persons or damage to property occasioned or caused by the acts, omissions or negligence of the customer or any of the customer's agents, employees, or licensees, in installing, maintaining, operating, or using any of the customer's lines, wires, equipment, machinery, or apparatus, and for injury and damage caused by defects in the same.

4. Customer shall also hold the city harmless and indemnify it against all claims and liability for injury to persons or damage to property when such damage or injury results from or is occasioned by the facilities located on the customer's side of the point of delivery unless caused by the negligence or wrongful acts of the city's agents or employees.

5. The city shall not be held liable for injury to persons or damage to property caused by its lines or equipment when contacted or interfered with through digging or the installation of objects in the ground or by ladders, pipes, guy wires, ropes, aerial wires, attachments, trees, structures, airplanes or other objects not the property of the city, which cross over, through, or in close proximity to the city's lines and equipment. The city shall be given adequate notice before any digging takes place near the city's lines or equipment, before trees overhanging or in close

proximity to the city's lines or equipment are trimmed or removed or when stacks, guys, radio or television aerials, wires, ropes, drain pipes, structures, or other objects are installed or removed near the city's lines or equipment, but the city assumes no liability whatsoever because of such notice. LPC may, in its discretion, have an obstruction removed at the customer's expense.

6. The city shall not be liable for injury of persons, damage to property, monetary loss, or loss of business caused by accidents, acts of God, fires, floods, strikes, wars, authority or orders of government, interruption of its power supply, or any other causes and contingencies beyond its control.

7. The city shall not be liable for complete or partial failure or interruptions of service or fluctuations in voltage, resulting from any cause whatsoever.

~~8. The developer of a subdivision, or builder where appropriate, will be deemed to be the "customer" for the purpose of this section until all normal construction responsibilities in the development and on the site are complete.~~

Section 3

The Council amends section 14.32.210 of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

14.32.210. - Meters.

A. Point of delivery and metering equipment requirements.

1. The point of delivery is that point on the consumer's premises (or other agreed point) where the city terminates its electrical service conductors, and the customer's wires are connected to the city's conductors. All equipment on the load side of the point of delivery shall belong to, and be the responsibility of the customer.

Notwithstanding the foregoing, ~~, except~~ meters and metering equipment and other equipment provided by the city, including instrument transformers, shall belong to and be the responsibility of the city, except for sub meters which may belong to and be the responsibility of the customer if sub meters are authorized pursuant to this chapter. If an outage occurs due to failure of the meter housing or its components, the customer is responsible for repairs.

2. It shall be the responsibility of the customer, or the customer's electrical contractor, to obtain the city's most current standards and specifications, to advise the city of the customer's requirements in advance of installing the service entrance equipment, and to ascertain that the location is acceptable to the city. The customer shall furnish and install a meter housing approved by the City for the installation of the city's metering equipment.

~~3~~. ~~The customer shall furnish and install a meter housing approved by the City of Longmont for the installation of the city's metering equipment. If, in the city's discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers, or if an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the city will furnish and install the meters. In the case of meter clusters, the customer shall furnish and install metering equipment that has been approved by the LPC engineering and metering divisions. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC.~~ If,

in the city's discretion, instrument transformers are required, refer to drawing MTR-10 and MTR-11 in section 700 of the City of Longmont design and construction standards. CTs and PTs shall only be installed in approved NEMA Type 3R cabinets with a hinged door, lockable hasp and fasteners that cannot be removed from the exterior of the cabinet. The cabinet shall be of sufficient size for load and voltage conditions. Keyed door locks are not allowed. The CT cabinet and meter socket shall be installed so that the meter socket is not obstructed with the cabinet door in the full open position. For Switchgear CT compartments, refer to drawing MTR-13, barriers shall be installed on all four (4) sides of compartment. The compartment shall have no Customer installed equipment behind hinged sealable doors. All panels providing access to unmetered conductors shall have fasteners that cannot be removed from either the exterior or the Customer compartment. No conductors, other than those serving the CT compartment and the ground bus shall be installed in or routed through the compartment. 277/480 volts switchgear shall be manufactured with provisions for unobstructed mounting of PTs inside the same compartment as CTs. If switchgear is to have door fronts, there shall be no other Customer equipment inside the metering section. CT cabinets and meter sockets may not be used as a pull-box or junction box. No connections shall be made in the CT compartment or meter socket to supply another meter, more than one load circuit, or Customer equipment. For multiple loads a switchboard or combination CT/multi-main equipment must be used. Gutters, raceways and conduit after metering point is allowed. In the case of meter clusters, the Customer shall furnish and install metering equipment that has been approved by the LPC staff. LPC staff

will inspect installations at the time of service connection. LPC staff shall not install the service meter until the Customer installs a meter housing approved by LPC.

3.~~4.~~ In multi-unit buildings, ~~each meter socket shall be plainly and permanently marked with an engraved brass badge to indicate which apartment or unit it supplies. The marking shall be the same as the mailing address for each apartment or unit~~the line side of the meter bank shall have a fault limiting disconnect installed and shall include provisions for an LPC seal. Seals will be used by LPC to secure the enclosure from unauthorized entry. Each individual meter will have a load side disconnect located next to the meter it serves and shall be plainly marked with an engraved phenolic badge to indicate which apartment or unit it supplies. Reference detail drawing MTR-9 in section 700 of LPC's design standards and construction specifications. The badge shall be permanently riveted to the electric equipment near the breaker of disconnect. The ~~owner or developer~~ customer shall be responsible for all electricity delivered through unmarked, illegible or incorrectly labeled meter sockets and is responsible for ensuring that mis-wiring does not occur between the tenant spaces. The city will bill all expenses incurred by the utility related to correcting improperly labeled meters to the ~~developer or owner~~customer, who shall pay such expenses within 30 days of receipt of said billing.

B. Meter locations.

1. Meter housings, service disconnects and associated metering equipment for all types of services shall be located on the outside of the building or structure and accessible to city metering staff. ~~Meters shall not be fenced in. Access restrictions of any kind or sites that are deemed unsafe to enter will require the customer to pay~~

~~a charge to have remote read capable equipment installed on the site. For specific metering requirements, reference the City of Longmont Design Standards and Construction Specifications.~~

2. Meters shall not be fenced in or installed in places difficult to access, such as over open pits, moving machinery, hatchways, in the path of water from eaves or rain spouts, or subject to live steam or corrosive vapors. It shall be the responsibility of the customer to maintain a clear space of at least 36 inches in front of or around the meter and associated electric equipment. No hazardous plants, shrubs or other obstructions shall be placed within the 36 inch clearance area. Customers shall be given seven days to comply after written notice. After the expiration of the seven days, the city, in its discretion, may conform the meter access to this regulation at the owner's expense or discontinue service.

3. Where the meter is recessed in the wall of a building, a space of not less than twelve inches on each side of the center line of the meter base shall be provided to permit access for city test equipment or meter changes.

4. New service entrance locations shall be approved by LPC prior to installation.

5. Meters ~~shall not be installed in padmounts~~currently located on the inside of the customer's premises shall be moved to the outside when there is a change of service.

6. All meter equipment must be installed in readily accessible locations for LPC personnel~~Meters shall not be mounted on city facilities without prior approval by LPC~~.

C. Meter reading.

1. The city will attempt to read all meters on a monthly basis. Although the city will attempt, as nearly as possible, to read meters on the same cycle date, some variation may occur. It is the customer's responsibility to provide access to the City's metering equipment for the purpose of obtaining reads for monthly billing. Access restrictions of any kind or sites that are deemed unsafe to enter will require the customer to pay a charge to have remote read as well as connect/disconnect capable equipment installed on the site.

2. If for any reason a meter reading cannot be obtained for any particular period, the billing may be based on an estimated energy use and demand; it will be subject to later adjustment, if deemed necessary by the city.

3. The city will not be obligated to reset demand meters in the event of system disturbances, inoperable load controllers, or other reasons beyond the city's control.

D. Meter tests.

1. The city will, at its own expense, make tests and inspections, as required, on its meters to insure a high standard of accuracy. The city may, in its discretion, test a meter at any time. The city will, at its own expense, make one meter test per year upon customer's request. A meter may be considered accurate if it tests within two percent plus or minus. The city may adjust bills accordingly if a meter tests in excess of the two percent accuracy standard.

2. Additionally, more frequent tests may be made at the request of the customer. In the event the meter is found to register within two percent plus or minus, the customer will be required to pay a test fee to cover the cost of the tests. If the meter is found to exceed the two percent limit plus or minus, the bill may be adjusted

accordingly for the preceding six-month period or until the previous test, if tested less than six months before, and no charge will be made for the testing.

E. Separate meter for each class of service. When the customer receives service under more than one rate schedule, a separate meter must be installed for service under each rate schedule. The customer will be billed under each rate schedule based on the measurement registered by the applicable meter.

F. Additional meters. Should the customer desire the installation of additional meters other than those necessary to measure adequately the service taken by the customer, such additional meters shall be provided, installed and maintained by the customer at the customer's sole cost and expense.

G. Dwelling units must be individually metered with meters provided by the city, unless master meters are authorized pursuant to this section. A customer may apply to the director for permission to use a master meter in multi-family dwelling units, or commercial applications. In deciding whether to grant permission, the director may consider, among other relevant factors, supply closet space restraints (space limitations), or where load centers are located on multiple levels (floors) of a building where there is a need for reducing the quantity of 'home run' wiring paths to each meter. If permission is granted, the customer must use a master meter provided by the city. All multi-family dwelling units using master meters as authorized by this section shall be subject to the applicable commercial electric rate and commercial ECIF.

Section 3

The Council amends section 14.32.220, paragraphs B, J and P only, of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

14.32.220. - Miscellaneous.

…

B. Attachments to utility property.

1. No posters, banners, placards, radio or television aerials, or other objects will be attached to the poles or other utility property of the city. Any attachment to the city's poles or other utility property must have the express prior written authorization of the ~~general manager~~director or the ~~general manager~~director's designated representative.

2. Attachment to the pole by others under the 1996 Federal Telecommunications Act for providing services must be made pursuant to a pole attachment agreement provided by the city.

…

J. Right of access.

1. The customers will provide access to their premises at all reasonable times for authorized employees of the city for any proper purpose incidental to the supplying of electric or telecommunication service. This would include, but is not limited to, reading meters and testing, inspecting, repairing or replacing any equipment which is the property of the city. For the purposes of maintaining or repairing the city's equipment, if access to the property or any equipment is limited in any fashion, the customer shall take all steps, including the provision of keys where necessary, to

provide access. For the purpose of obtaining meter reads for monthly billing, if access to the property is limited in any fashion, the customer will be required to pay a charge to have remote read capable as well as connect/disconnect equipment installed on the site.

2. All easement areas shall be maintained for adequate access to city equipment. The city shall have the right to correct the access problem at the customer's expense or discontinue service if the customer does not correct the access problem within seven days after written notification of the problem. In the case of an emergency, the city may discontinue service ~~correct the access problem~~ or correct the issue without notice.

3. The city shall not be responsible for replacing trees, shrubs, plants, or ground covers which have been damaged and are in the right-of-way or easements, or within required equipment clearances, during emergency outages, maintenance of equipment or while obtaining monthly meter reads.

…

P. Trees near power lines.

1. For safety and reliability reasons, LPC or its agents ~~must~~ may trim any tree or other vegetation on the customer's premises that is near or adjacent to power line~~s~~. The trimming shall be done according to ~~LPC standards~~section 700 of the City of Longmont design standards and construction specifications.

2. Tree houses, antennas or other overhead installations ~~shall not be allowed~~ near power lines must adhere to clearance requirements in accordance with ~~industry~~ NESC ~~standards~~standards. Removal of ~~the~~ such installations not in compliance

with these standards shall be the responsibility of the ~~owner~~customer at the ~~owner's~~ customer's sole cost and expense.

3. It is the customer's responsibility to make sure all items in, on, under and over the customer's property maintains current clearance requirements from LPC's infrastructure. Any damages to LPC's infrastructure by a customer owned item, including but not limited to, any tree or other vegetation, will be the responsibility of the customer at the customer's sole cost and expense.

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Section 4

The Council amends section 14.32.225, paragraphs A and B only, of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

14.32.225. - Small generation interconnection standards.

A. Installation and permitting.

1. General. Distributed Generation Systems (DGS) are customer-owned generation and utilization equipment on the load side of the electric utility meter, and are subject to all permitting and inspection requirements pertinent to these facilities in conformance with the National Electrical Code (NEC). In addition, the customer must apply for the electric service rate applicable to these interconnected facilities.

2. Classes of electric service for distributed generation systems. Distributed generation systems shall be sized to supply no more than one hundred and twenty percent (120%) of the annual average consumption of electricity by the customer at that site. Service requirements for distributed generation systems shall be based

upon the generator (or inverter) nameplate rating(s). If the site incorporates more than one generator or inverter, the capacity (for the purposes of determining class) shall be the sum of the nameplates.

a. Class 1 is distributed generation of 50 kW or less. Class 1 generation must be registered for residential or commercial self-generation service and must meet the requirements and standards, including those in subsections 14.32.225.C.1 through C.7. Class 1 services rated more than ten kW may require upgrades to LPC facilities at customer cost.

b. Class 2 is distributed generation of more than 50 kW but less than 1,000 kW. Class 2 systems will require a contract for electric service and an extensive engineering review by LPC for system interconnection and facility upgrade requirements. Class 2 services may be subject to additional codes and requirements.

c. Class 3 is distributed generation of 1,000 kW or larger. Class 3 will require coordination with LPC and Platte River Power Authority (PRPA) regarding interconnection requirements and compensation for generation output.

3. Minimum standards. The DGS must comply with all applicable standards and codes including, but not limited to, NEC, UL, ANSI, NEMA, and IEEE. Specific requirements include the current versions of the following:

a. UL 1741-Standard (e.g., Standard for static inverters and charge controllers for use with photovoltaic systems).

b. IEEE Standard 1547 (2003): Standard for interconnecting distributed resources with electric power systems.

B. Service account administration.

1. Request for service. The customer ~~or contractor~~ must apply for the appropriate interconnected electric service for the facility - resident self-generation or commercial self-generation. The interconnection customer may not connect the DGS to LPC's electric system until the LPC service application form has been completed and the DGS has been tested and approved by LPC. LPC may perform (at its own expense) whatever testing of the DGS that LPC deems necessary.

2. Transfer of property ownership. The residential self-generation and/or commercial self-generation rates are associated with the interconnected generation facilities and will transfer with the property to any new ownership.

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Section 5

The Council amends section 14.32.230 of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

14.32.230. - Line extension policy.

A. Residential service extensions.

1. Service standards.

a. LPC is responsible for the standards, electrical engineering and design associated with the city-owned and maintained electric utility.

b. All electric distribution systems will comply with the requirements outlined in this chapter and in the City of Longmont design standards and construction specifications.

c. Unless approved by the LPC engineering division, residential subdivision developments within the city will incorporate front of lot underground facilities.

Individual building lots within areas with established overhead facilities and rural subdivision developments may incorporate either overhead or underground facilities at LPC's discretion~~the customer's option~~. Underground installations will utilize pad mounted transformers. The ~~A~~available single phase voltage will be 120/ ~~per~~ 240 volts.

d. Public roadways will be lighted in accordance with LPC street lighting guidelines. Street lighting systems will be designed and constructed by the city. ~~Developers~~ Customers are responsible for the costs of design and installation.

e. Line extensions will begin at the closest suitable point of the electric distribution system, as determined by the city.

f. The extension will end at the customer's point of delivery and the responsibility for service facilities is:

i. Underground. The city will own, install, and maintain the primary voltage system, including transformers, and the secondary voltage system, to and including the metering pedestal or the secondary ground vault/junction box ~~vault~~.

(A) Pedestals. The customer will install, own, and maintain the service facilities from the pedestal. These facilities shall be in accordance with the requirements of the NEC and the city building inspection department or the Boulder or Weld County inspection department.

(B) Secondary ground vaults/junction boxes ~~vaults~~. Where secondary ground vaults/junction boxes~~vaults~~ have been installed in residential subdivisions in lieu of pedestals, the customer will install the secondary facilities to the home including the meter housing as set forth in LPC's metering specifications and the City of

Longmont's design standards and construction specifications. The customer will install schedule 40 PVC. PVC joints shall be made with long line bell ends and couplings using cold weather glue and ~~These facilities~~ shall be in accordance with the requirements of the NEC and the governing inspection agency.

ii. Overhead. The city will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. The customer will own, install, and maintain the service facilities including the mast, an attachment point for the secondary service wire drop that is secure and provides proper clearance, and associated wiring (and meter pole, if required). These facilities will be in accordance with NEC requirements and be inspected and approved by the governing agency.

g. Connections.

i. ~~Underground service.~~ All connections to city-owned facilities must be made by city personnel.

ii. ~~Overhead service. Under standard practice, city personnel will connect the city-owned service drop to the customer-owned mast wiring. Customer may elect to temporarily connect the city-owned service drop to the customer-owned mast, if installed by customer in accordance with the NEC, with further action by LPC for permanent connection. In such event, the city will assume no responsibility regarding the quality or performance of the connections or the connecting devices.~~If any meter/metering equipment or city requirement is found to be compromised by changes to existing building installation without the documented approval of the city, the customer will pay the cost to correct the deficiencies.

2. Procedures.

a. To initiate the design and cost estimating process for residential development, the following procedures will apply:

i. For new development, refer to the City of Longmont design standards and construction specifications.

ii. Construction on a lot not served by meter pedestal or secondary junction vault: the ~~builder~~ customer shall submit the applicable request for electric service and shall schedule a project coordination meeting with the LPC engineering division.

iii. Construction on a lot served by an existing secondary junction vault or metering pedestal: no coordination with the LPC engineering division is required. The customer shall comply with LPC's metering specifications and the City of Longmont's design standards and construction specifications.

b. All project design and cost estimates will be ~~scheduled~~determined by LPC. Refer to the City of Longmont design standards ~~based upon the date of submittal of the request for service, accompanied by the required project information~~.

c. ~~For services greater than 200 amps, current and voltage metering transformers will be issued by the LPC meter shop in the City Service Center, 1100 S. Sherman Street. A copy of the building permit must be submitted and the request for service completed with the LPC engineering division.~~For Current Transformer (CT) and Potential Transformer (PT) requirements refer to Metering Requirements in the City of Longmont design standards and construction specifications.

d. The customer must provide written easements to the city for all properties which the line extension will cross. The city will furnish the standard form for these easements and will designate width of easements and acceptable line routes.

e. All required procedures must be satisfied before the project work order will be scheduled for construction.

f. Site preparation must be completed prior to construction start:

i. Refer to the City of Longmont design standards for specific development requirements.

ii. Lot corners or other requested references must be marked by the customer. This may include locating associated electric easement(s) granted for access to and construction within the project site.

iii. If the city determines that the extension passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction or a ~~three foot~~forty two inch deep trench for underground construction. LPC personnel, or the customer if required in the city's sole discretion, will stake the required location of each pole and anchor or the route of each trench.

iv. Streets or access routes and construction areas must be open for safe equipment passage and operation.

3. Fees.

a. The on-site cost will be paid by the ~~developer or builder or other responsible party~~customer. "On-site" refers to facilities directly associated with service to the development or building and/or facilities physically located on the development or

building site. The cost will be the total of material, labor, equipment, city subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by the LPC engineering division.

b. The ~~developer or builder~~customer is responsible for paying all costs required for street lighting systems within the development, and the appropriate portion of costs required for street lighting along public roadways adjacent to development.

c. Payment will be made as required ~~by~~to LPC.

d. Charges for changes during construction or after initial installation of the system will be borne by the ~~builder or other responsible party in accordance with paragraph (C)(1) above~~customer. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the ~~developer, builder, or other responsible party~~customer.

e. An electric community investment fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in section 14.32.150.

B. Commercial/industrial service extensions.

1. Service standards.

a. LPC is responsible for the standards, electrical engineering and design associated with the city-owned and maintained electric utility.

b. All electric distribution systems will comply with the requirements outlined in this chapter and the City of Longmont design standards and construction specifications for electric distribution systems and service line construction.

c. New commercial or industrial areas within the city will be constructed using underground electric facilities. Individual building lots within areas with established overhead facilities and areas outside the city limits may incorporate overhead or underground facilities at ~~the customer's option~~LPC's discretion. Underground installations will utilize pad mounted transformers. Overhead installations are limited to a maximum transformer size of 300 kVA.

d. Line extensions will begin at the closest suitable point of the electric distribution system, as determined by LPC.

e. Public roadways will be lighted in accordance with LPC street lighting design guidelines. Street lighting systems will be designed and constructed by the city. ~~Developers~~ Customers are responsible for the costs of design and installation.

f. Under standard practice, commercial/industrial subdivision designs will incorporate a three phase primary voltage system with associated tap points. Individual service installations may be either single or three-phase at the ~~builder's~~ customer's option. Available three-phase voltages will be 120/~~ per~~ 208 volts or 277/~~ per~~ 480 volts. Available single-phase voltage will be 120/~~ per~~ 240 volts. If supplied by a three-phase installation, 120/~~ per~~ 208 volts single-phase will be the service standard.

g. All installations will have the meter located on the exterior of the customer's building~~ unless an approved design is presented and approved by LPC staff. No customer-owned facilities will be mounted on city facilities or structures. Access must be provided to all city facilities or structures~~.

2. Installation and ownership of facilities.

a. Standard services.

i. Underground. The city will own, install, and maintain the primary voltage system including transformers. The customer will own, install, and maintain the service facilities from the transformer secondary spades in accordance with the NEC requirements. Additionally, the customer must furnish the concrete pad for the transformer per the LPC engineering division specifications. This pad remains the ownership and maintenance responsibility of the customer.

ii. Overhead. The city will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. The customer will own, install, and maintain the service facilities including the mast, an attachment point for the secondary service wire that is secure and provides proper clearance, and associated wiring; these facilities shall be in accordance with NEC requirements.

b. Primary meter services. The city will own, install, and maintain all primary voltage facilities up to and including the customer's metering point. The customer will own, install, and maintain all facilities on the load side of the metering point unless determined otherwise by individual contract. All customer facilities will be in accordance with NEC requirements.

3. Connections of service facilities. Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the city-owned facilities and/or system.

a. Underground service. All connections to city-owned facilities will be made by city personnel. ~~Unless specifically approved by LPC, the total number of connections within a three-phase transformer will be limited to six conductors per~~

~~phase; within a single-phase transformer, the limit will be four conductors per phase. The customer will install cable of sufficient length for termination.~~

i. The total number of connections within a single-phase transformer is limited to four with a maximum cable size of 500 kcmil.

ii. The total number of connections per phase within a 25 kva-225 kva three-phase transformer will be limited to six with a maximum cable size of 500 kcmil.

iii. The total number of connections per phase within a 300–2500 kva three-phase transformer will be limited to 10 with a maximum cable size of 750 kcmil.

iv. The customer will install cable of sufficient length for termination.

v. In the event that more than the allowed number of conductors are required, a ~~separate termination~~secondary ~~–~~cabinet ~~and associated facilities may~~must be installed at the customer's expense. This cabinet will be owned, installed, and maintained by the ~~city~~customer and will ~~be~~become the point of attachment for the service. For additional details refer to the City of Longmont's design standards and construction specifications.~~The city will own, install, and maintain the wiring between the cabinet and transformer and make all associated connections. The customer will own, install, and maintain the facilities between the cabinet and the service entrance and will make all associated connections.~~

b. Overhead service. Under standard practice, city personnel will connect the city-owned service drop to the customer-owned mast wiring.

~~Customer may elect to temporarily connect the city-owned service drop to the customer-owned mast wiring if installed by customer in accordance with the NEC, with further action by LPC for permanent connections. In such event, the city will~~

~~assume no responsibility regarding the quality or performance of the connections or the connecting devices.~~

4. Procedures.

a. To initiate the design and cost estimating process, refer to the City of Longmont design standards and construction specifications.

b. The customer shall furnish and install a meter housing approved by the City of Longmont for the installation of the city's metering equipment. If, in the city's discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers, or if an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the city will furnish and install the meters. In the case of meter clusters the customer shall furnish and install metering equipment that has been approved by LPC. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC. The governing inspection agency will be notified and an additional inspection may be required.

c. The customer may be required to provide easements in addition to previously recorded plats to the city for all properties which the line extension will cross. Surveying costs required to provide such easements are at the customer's expense. The city will furnish the standard form for these easements and will designate width of easements and acceptable line routes.

d. All required procedures must be satisfied before the project work order will be scheduled for construction.

e. The following site preparation must be completed prior to construction start:

i. Refer to the City of Longmont Design Standards for specific development requirements.

ii. If the city determines that the extension passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction or a three-foot deep trench for underground construction. LPC engineering division personnel, or the customer if so required in LPC's sole discretion, will stake the required location of each pole and anchor or the route of each trench.

5. Fees.

a. The on-site electric facilities cost will be paid by the ~~developer or builder or other responsible party~~customer. "On-site" refers to facilities directly associated with service to the development or building and/or facilities physically located on the development or building site. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of material, labor, equipment, city subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by LPC.

b. The responsible party will pay all costs required for street lighting systems along public roadways within the development, and the appropriate portion of costs

required for street lighting systems along public roadways contiguous to the development.

c. Charges for changes during construction or after initial installation of the system will be borne by the responsible party in accordance with section 14.32.230(B)(5)(a). Changes in installation techniques due to unforeseen conditions will also result in charges to the responsible party.

d. Payments will be made as required by LPC.

e. An electric community investment fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in section 14.32.150.

Section 6

The Council amends section 14.32.240 of the Longmont Municipal Code, by adding italicized material and deleting stricken material, to read as follows:

14.32.240. - Service modification policy.

A. Residential service modifications.

1. Service standards.

a. LPC is responsible for the standards, electrical engineering and design associated with the city-owned and maintained electric utility.

b. All electric distribution systems will comply with the requirements outlined in the rules and regulations.

c. Available single-phase voltage will be 120 per 240 volts.

i. Contact LPC engineering division for non-standard residential voltages.

d. A building permit from the appropriate governing agency is required.

i. City of Longmont, contact City of Longmont building inspection division.

ii. Boulder or Weld County, contact county inspection division.

e. The service modification may include a meter relocation, electric panel upgrade, conversion from overhead to underground, etc., and may include the customer's point of delivery. The responsibility for service facilities is:

i. Underground. The city will own, install, and maintain the primary voltage system including transformers and the secondary voltage system including the metering pedestal or the secondary junction vault. LPC facilities will be relocated or upgraded to meet the customer's service change.

(A) Pedestals. The customer owns and maintains the service conductor from the pedestal to the electrical panel at the residence. The changes in customer-owned facilities shall be completed by the customer in accordance with the NEC and the governing inspection agency.

(B) Secondary junction vaults. Where secondary junction vaults have been installed in residential subdivisions in lieu of pedestals, the customer is responsible for the modifications required to the conduit and conductor. LPC will take over the maintenance of the conductor ~~one year~~two years after the final inspection date.

~~The customer shall furnish a meter housing approved by the City of Longmont for the installation of the city's metering equipment as set forth in LPC's metering specifications and the City of Longmont's design standards and construction specifications.~~

ii. Overhead. The city will own, install, and maintain the primary voltage system, transformers, and service wiring up to the service mast. LPC facilities will be relocated or upgraded to meet the customer's service change.

The customer will own and maintain the service facilities, including the mast, an attachment point for the secondary service wire drop that is secure and provides proper clearance, and associated wiring (and meter pole, if required). Customer-owned facilities will be modified in accordance with NEC and the governing inspection agency.

(A) Service line conversion overhead to underground. Where overhead electric facilities exist and the customer requests an underground service, the city will own, install, and maintain the service wiring down the pole to a junction vault.

(B) The customer installs, owns and maintains the service conductor from the junction vault to the electrical panel at the residence. Customer-owned facilities shall be completed in accordance with the NEC and the governing inspection agency.

iii. *Metering Equipment.* The customer shall furnish a meter housing approved by the City of Longmont for the installation of the city's metering equipment as set forth in LPC's metering specifications in section 700 in the City of Longmont's Design Standards and Construction Specifications.

f. Connections. Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the city-owned facilities and/or system.

i. Underground service. All connections to city-owned facilities will be made by city personnel.

ii. Overhead service. Under standard practice, city personnel will connect the city-owned service drop to the customer-owned mast wiring.

~~Customer may elect to temporarily connect the city-owned service drop to the customer-owned mast if installed in accordance with the NEC, with further action by LPC for permanent connections. In such event, the city will assume no responsibility regarding the quality or performance of the connections or the connecting devices.~~

2. Procedures.

a. To initiate the design and cost estimating process for residential service relocations, upgrades or other modifications the customer or designee shall submit the applicable request for electric service. Supporting documents shall be included with the request and a project coordination meeting scheduled with LPC.

b. All project design and cost estimates will be scheduled by LPC based upon the date of submittal of the request for service, accompanied by the required project information.

c. All electrical ~~For~~ services ~~greater~~over 400 amps, single-phase, three-phase, 120/240 and 120/208 volts require CT's. All services over ~~than~~ 200 amps, three-phase, 277/480 and 240/480 volts will require CT's and PT's. Meter housings, CT's ~~and voltage metering~~ and PT's are required to ~~will~~ be obtained from LPC~~issued by the LPC Meter Shop in the City Service Center~~, 1100 S. Sherman Street. The customer will be charged for this service.~~A copy of the building permit and the completed request for service must be submitted and approved by LPC before the equipment will be released.~~

d. For relocation of the electric service, the customer must provide written easements to the city for all properties which the service line will cross. The city

will furnish the standard form for these easements and will designate width of easements and acceptable line routes.

e. All required procedures must be satisfied before the project work order will be scheduled for construction.

f. The following site preparation must be completed prior to LPC construction start:

i. Lot corners or other requested references must be marked by the customer. This may include locating associated electric easement(s) granted for access to and construction within the project site.

ii. If the service modification requires a new installation and the city determines that it passes through a rocky area, the customer must provide a six-foot deep hole for each pole and a seven-foot deep hole for each anchor for overhead construction or a 42 inch ~~three-foot~~ deep trench for underground construction. LPC engineering division personnel, or the customer if so required in LPC's sole discretion, will stake the required location of each pole and anchor or the route of each trench.

iii. For additional site preparation details refer to the Appendix within the City of Longmont's Design Standards and Construction Specifications.

g. Connections to the customer-installed facilities will be scheduled after LPC receives an inspection release by the governing inspection agency.

3. Fees.

a. The cost associated with the service modification will be paid by the customer or other responsible party. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of

material, labor, equipment, city subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by LPC.

b. Charges for changes during construction or after initial installation of the system will be borne by the developer, the customer or designee in accordance with paragraph (A)(3)(a) above. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the developer, customer or designee.

c. An electric community investment fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in section 14.32.150.

d. Payments shall be made as required ~~by~~to LPC.

B. Commercial/industrial service modifications.

1. Service standards.

a. LPC is responsible for the standards, electrical engineering and design associated with the city-owned and maintained electric utility.

b. All electric distribution systems will comply with the requirements outlined in this chapter.

c. Underground installations will utilize pad mounted transformers. Overhead installations are limited to a maximum transformer size of 300 kVA.

d. Under standard practice, commercial/industrial services will incorporate a three phase primary voltage system with associated tap points. Individual service installations may be either single- or three-phase at the customer's option. Available three-phase voltages will be 120/~~ per~~ 208 volts or 277/~~ per~~ 480 volts. Available

single-phase voltage will be 120/~~ per~~ 240 volts. If supplied by a three-phase installation, 120/~~ per~~ 208 volts single-phase will be the service standard.

e. A building permit from the appropriate governing agency is required.

i. In the City of Longmont limits, contact City of Longmont building inspection division.

ii. In Boulder or Weld County, contact county inspection division.

f. Meter housings, service disconnects and associated metering equipment for all types of services shall be located on the outside of the building or structure and accessible to LPC staff~~All installations will have the meter located on the exterior of the customer's building unless an approved design is presented and approved by LPC staff. No customer-owned facilities will be mounted on city facilities or structures. Access must be provided to all city facilities or structures.~~

g. The service modification may include meter relocation, electric panel upgrade, etc., and will include the customer's point of delivery. The responsibility for service facilities is:

i. Underground. The city will own and maintain the primary voltage system including transformers. City facilities will be modified to meet the customer's service requirements.

The customer owns and maintains the service facilities from the transformer secondary spades. The service facilities will be modified by the customer in accordance with the NEC requirements and the governing inspection agency. Additionally, the customer must furnish the concrete pad as required for the

transformer defined in the LPC engineering division specifications. The customer has ownership and maintenance responsibility for this concrete pad.

ii. Overhead. The city will own, and maintain the primary voltage system including transformer, and service wiring up to the service mast. City facilities will be relocated or upgraded to meet the customer's service requirements.

The customer will own and maintain the service facilities, including the mast, an attachment point for the secondary service wire that is secure and provides proper clearance, and associated wiring. These facilities will be modified in accordance with NEC requirements and the governing inspection agency.

h. Primary meter services.

i. The city will own and maintain all primary voltage facilities up to and including the customer's metering point. City facilities will be relocated or upgraded to meet the customer's service requirements.

ii. The customer is responsible for modifying all facilities on the load side of the metering point. The customer will continue to own and maintain all facilities on the load side of the metering point except for customers who are substation metered in which case arrangements for ownership, installation and maintenance will be established unless determined otherwise by individual contract. All customer facilities will be modified in accordance with NEC requirements and the governing inspection agency.

i. Connections of service facilities. Customer-owned facilities must be inspected and approved by the appropriate governing agency prior to final connection to the city-owned facilities and/or system.

i. Underground service. All connections to city-owned facilities will be made by city personnel. ~~Unless specifically approved by LPC engineering division, the total number of connections within a three-phase transformer will be limited to six conductors per phase; within a single-phase transformer, the limit will be four conductors per phase. The customer will install cable of sufficient length for termination.~~

~~In the event that more than the allowed numbers of conductors are required, a separate termination cabinet and associated facilities may be installed at the customer's expense. This cabinet will be owned, installed, and maintained by the city and will become the point of attachment for the service.The city will own, install or increase capacity as required, and maintain the wiring between the cabinet and transformer and make all associated connections. The customer will own, install or increase capacity as required, and maintain the facilities between the cabinet and the service entrance and will make all associated connections.~~

(A) The total number of connections within a single-phase transformer is limited to four with a maximum cable size of 500 kcmil.

(B) The total number of connections per phase within 25 kva – 225 kva three-phase transformers will be limited to six with a maximum cable size of 500 kcmil.

(C) The total number of connections per phase within 300 kva – 2500 kva three-phase transformers will be limited to ten with a maximum cable size of 750 kcmil.

(D) The customer will install cable of sufficient length for termination. For more details refer to the City of Longmont's Design Standard and Construction Specifications.

(E) In the event that more than the allowed numbers of conductors are required, a secondary cabinet must be installed at the customer's expense. This cabinet will be owned, installed and maintained by the customer and will become the point of attachment for the service. For additional details refer to the City of Longmont's Design Standard and Construction Specifications.

ii. Overhead service. ~~Under standard practice,~~ city personnel will connect the city-owned service drop to the customer-owned mast wiring.

~~Customer may elect to temporarily connect the city-owned service drop to the customer-owned mast if installed in accordance with the NEC, with further action by LPC for permanent connections. In such event, the city will assume no responsibility regarding the quality or performance of the connections or the connecting devices.~~

2. Procedures.

a. To initiate the design and cost estimating process for commercial service relocations, upgrades or other modifications, the customer or designee shall submit the applicable request for electric service. Supporting documents shall be included with the request and a project coordination meeting scheduled with the LPC engineering division.

b. All project design and cost estimates will be scheduled by the LPC engineering division based upon the date of submittal of the request for service, accompanied by the required project information.

~~b~~c. The customer shall furnish a meter housing approved by the City of Longmont for the installation of the city's metering equipment. If, in the city's

discretion, instrument transformers are required, an approved location and mounting bracket shall be provided for outdoor type instrument transformers. If an outdoor installation is not desirable, the customer shall furnish and install an approved suitable metal enclosure for the installation of instrument transformers and the metering sockets for which the city will furnish and install the meters. In the case of meter clusters, the customer shall furnish and install metering equipment that has been approved by LPC. LPC staff will inspect installations at the time of service connection. LPC staff shall not install the service meter until the customer installs a meter housing approved by LPC. The governing inspection agency will be notified, and an additional inspection may be required.

~~c~~d. For relocated services, the customer may be required to provide easements in addition to previously recorded plats to the city for all properties which the electric facilities will cross. Surveying costs required to provide such easements are at the customer's expense. The city will furnish the standard form for these easements and will designate width of easements and acceptable line routes.

~~d~~e. All procedures must be satisfied before the project work order will be scheduled for construction.

~~e~~f. The following site preparation must be completed when new construction efforts are required prior to construction start:

i. Refer to City of Longmont Design Standards for specific development requirements.

ii. If the city determines that the service modification requires a new installation and it passes through a rocky area, the customer must provide a six-foot deep hole

for each pole and a seven-foot deep hole for each anchor for overhead construction or a forty two inch ~~three-foot~~ deep trench for underground construction. LPC engineering division personnel, or the customer, if so required in LPC's sole discretion, will stake the required location of each pole and anchor for the route of each trench.

3. Fees.

a. The cost associated with the service modification will be paid by the custome~~r or other responsible party~~. These costs may include the relocation or alteration of existing electric facilities necessitated by the project. The cost will be the total of material, labor, equipment, city subcontracted work associated with the project, and engineering/administration costs, based on standard estimating procedures established by the LPC engineering division.

b. Charges for changes during construction or after initial installation of the system will be borne by the customer~~responsible party~~ in accordance with paragraph (B)(3)(a) above. Changes in installation techniques due to unforeseen conditions will also result in charges to be borne by the customer or designee.

c. An electric community investment fee (ECIF) for all new electric services and upgrades is required. Specific details of the ECIF are provided in section 14.32.150.

d. Payment shall be made as required ~~by~~to LPC.

Section 7

To the extent only that they conflict with this ordinance, the Council repeals any conflicting ordinances or parts of ordinances. The provisions of this ordinance are severable, and invalidity of any part shall not affect the validity or effectiveness of the rest of this ordinance.

Introduced this _____ day of _____, 2020.

Passed and adopted this _____ day of _____, 2020.

_____
MAYOR

ATTEST:

_____
CITY CLERK

NOTICE: THE COUNCIL WILL HOLD A PUBLIC HEARING ON THIS ORDINANCE AT 7:00 P.M. ON THE _____ DAY OF _____, 2020, AT THE LONGMONT CITY COUNCIL MEETING.

APPROVED AS TO FORM:

_____ _____
ASSISTANT CITY ATTORNEY DATE

_____ _____
PROOFREAD DATE

APPROVED AS TO FORM AND SUBSTANCE:

_____ _____
ORIGINATING DEPARTMENT DATE

CA File: 20-000633